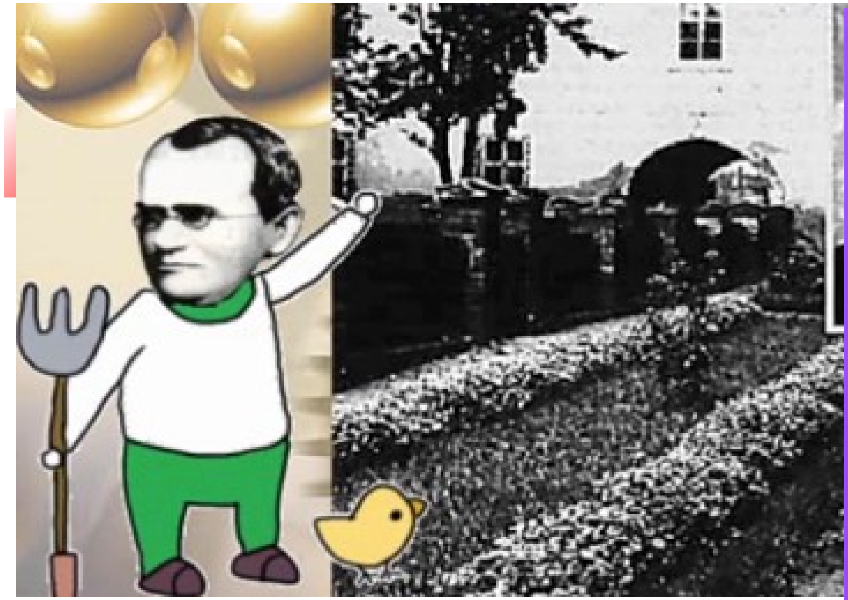
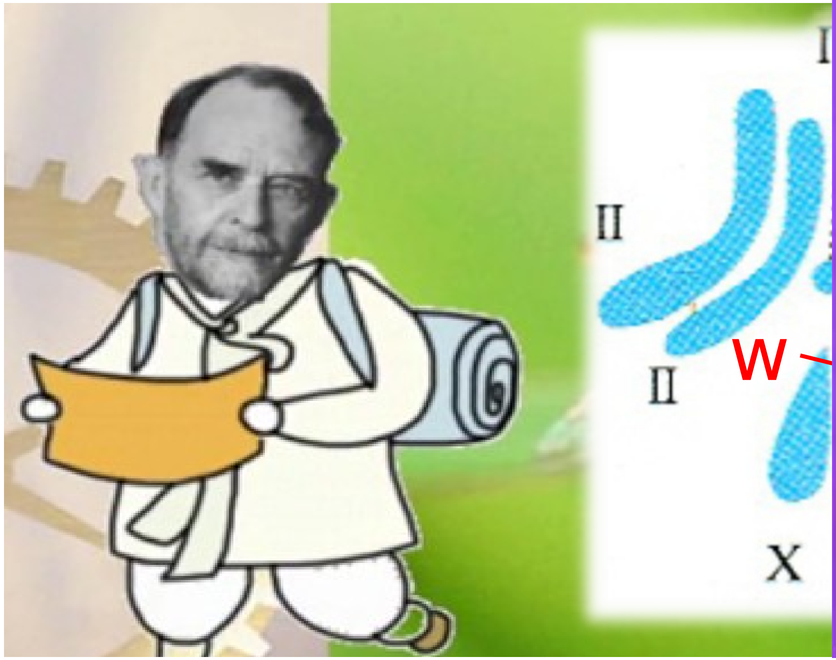
[illegible]

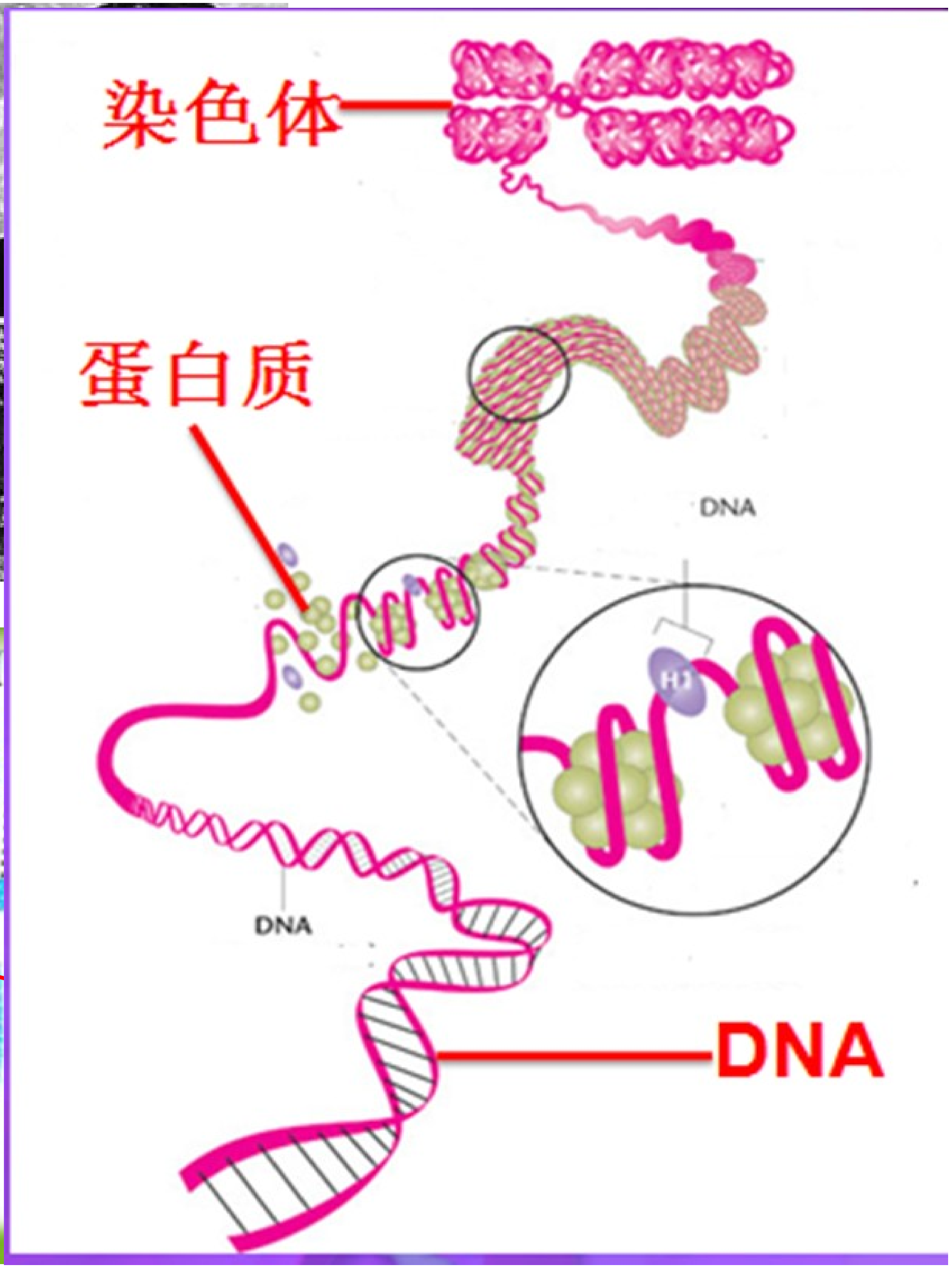
- 1. [illegible]
- 2. [illegible]
- 3. [illegible]
- 4. [illegible]
- 5. [illegible]
- 6. [illegible] T2 [illegible]

[illegible]

- [illegible] **1** [illegible] **DNA** [illegible]




I
II
II
W
X

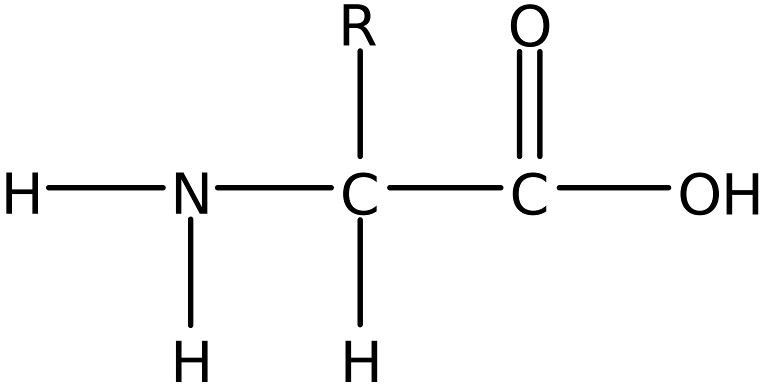

染色体
蛋白质
DNA
DNA
DNA

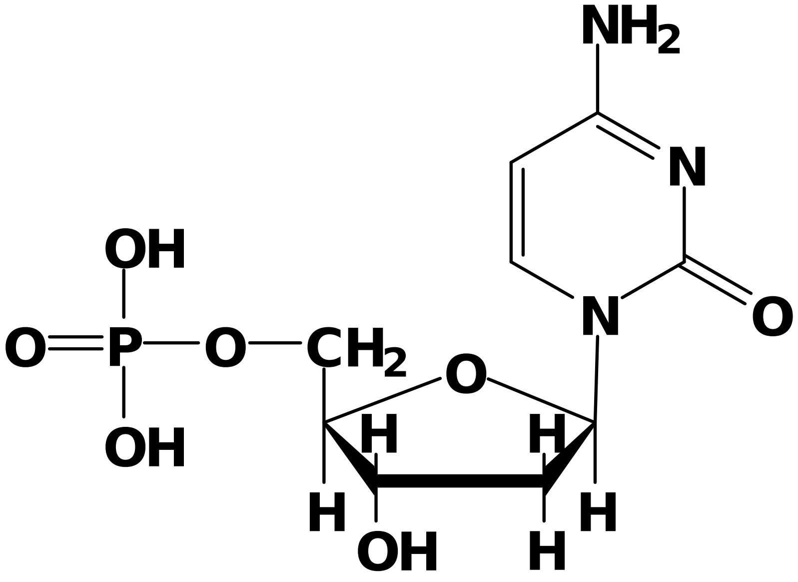
[illegible]

[illegible] VS DNA

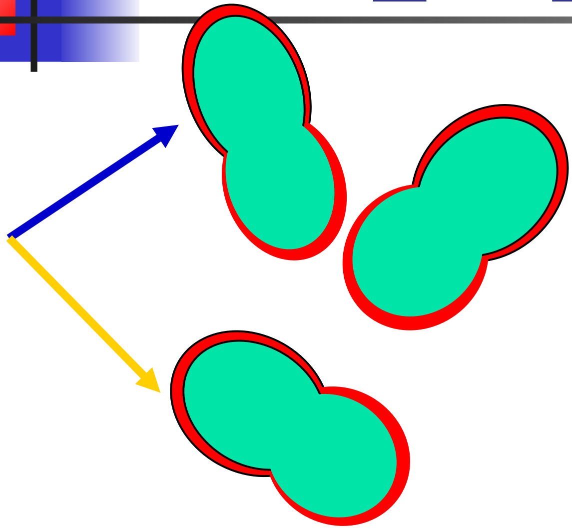
[illegible]
[illegible]
20 [illegible]

[illegible]
[illegible]
4 [illegible]

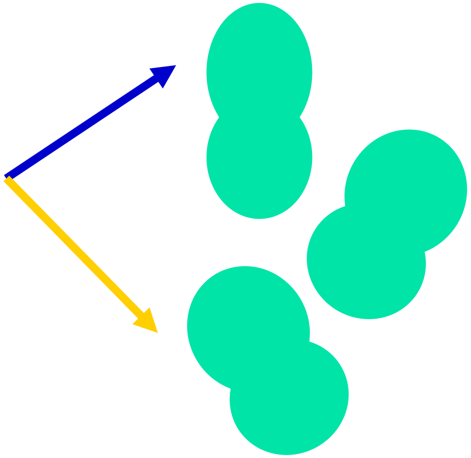




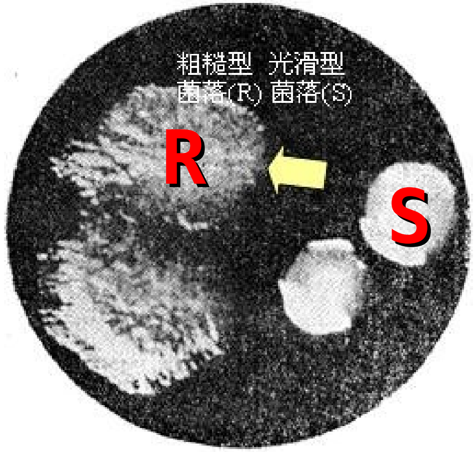
[illegible]．[illegible]



- [illegible] **Smooth** [illegible] **S** [illegible]
- [illegible]

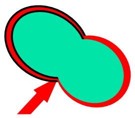


- [illegible] **Rough)** **R** [illegible]
- [illegible]

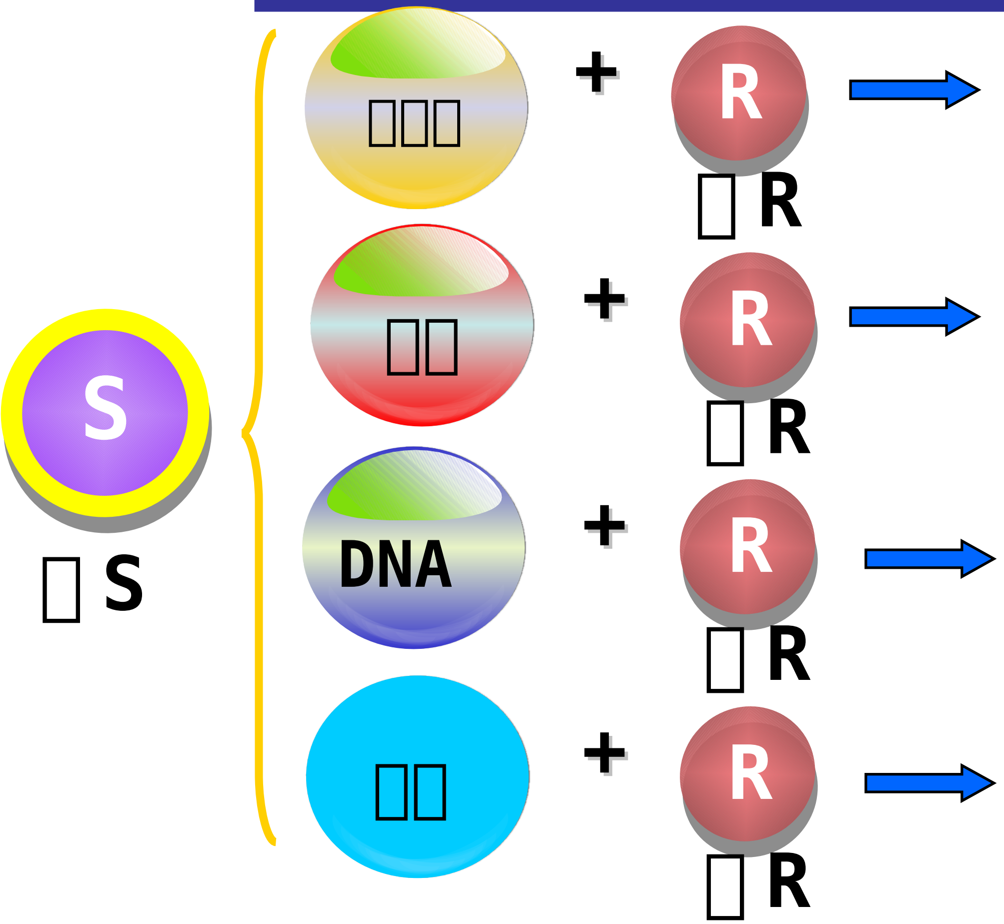


[illegible]

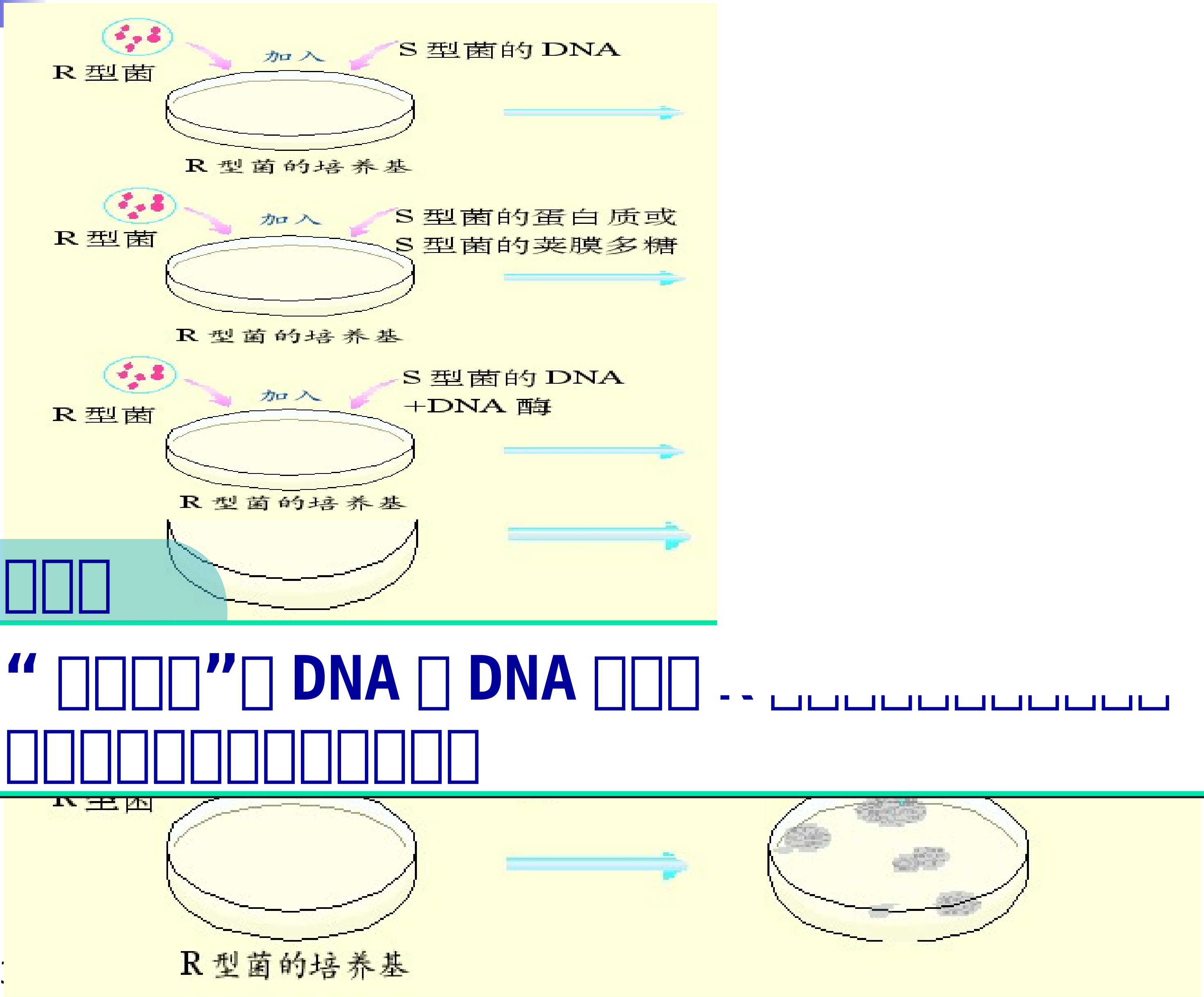
[illegible] S [illegible] R [illegible]
[illegible] S [illegible]



实验设计：



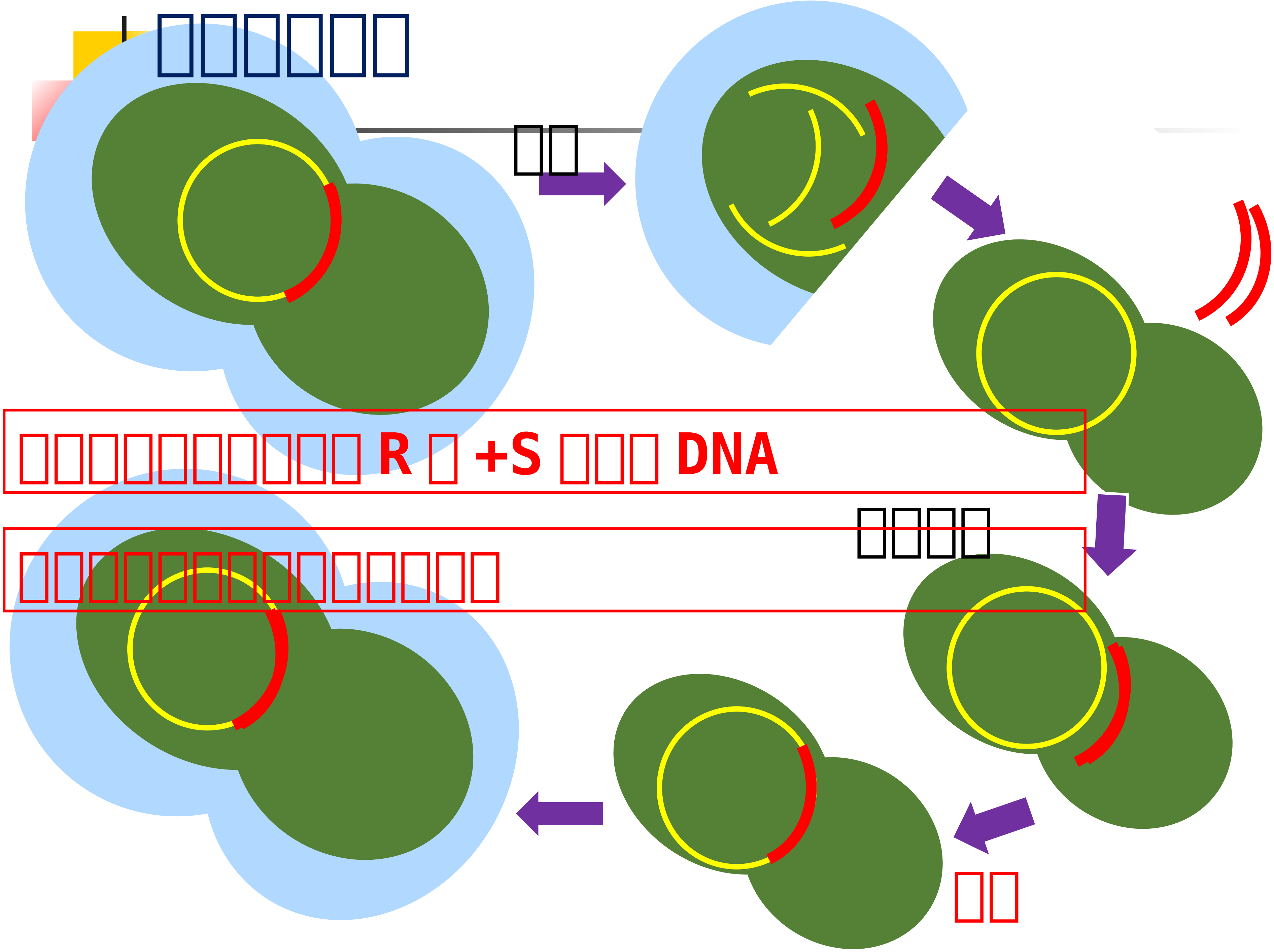
[illegible]


R型菌
加入
S型菌的DNA
R型菌的培养基
R型菌
加入
S型菌的蛋白质或
S型菌的荚膜多糖
R型菌的培养基
R型菌
加入
S型菌的DNA
+DNA酶
R型菌的培养基
R型菌的培养基

[illegible]

“[illegible]”[illegible]DNA[illegible]DNA[illegible]--[illegible]

[illegible]


R +S DNA

[illegible]

1 [illegible] ([illegible]) [illegible]

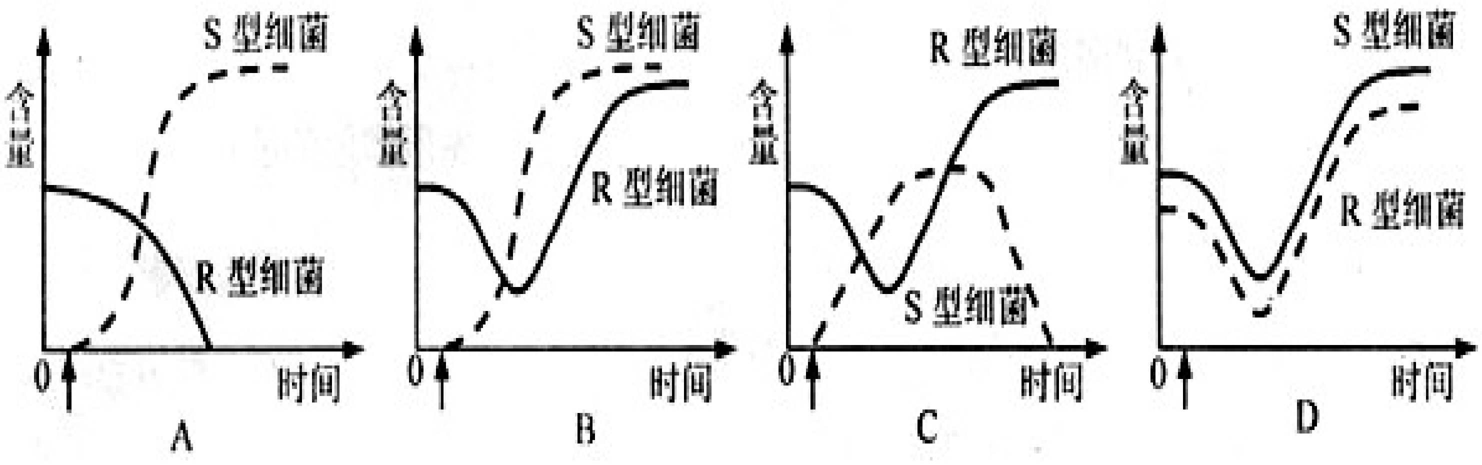
2 [illegible] DNA [illegible]

3 [illegible] S [illegible] DNA [illegible] R [illegible] R [illegible] S [illegible]

[illegible] R [illegible] +S [illegible] DNA

[illegible]

2. [illegible] R [illegible] S [illegible] S [illegible] R [illegible] (　　　) **B**

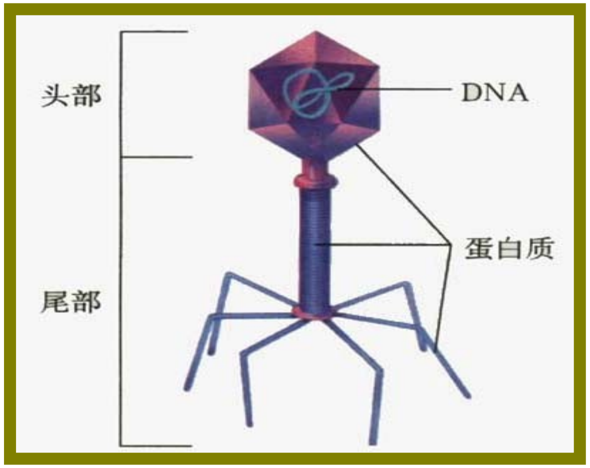


S 型细菌
R 型细菌
含量
0
时间
A
S 型细菌
R 型细菌
含量
0
时间
B
R 型细菌
S 型细菌
含量
0
时间
C
S 型细菌
R 型细菌
含量
0
时间
D

DNA

0.02%

T_2

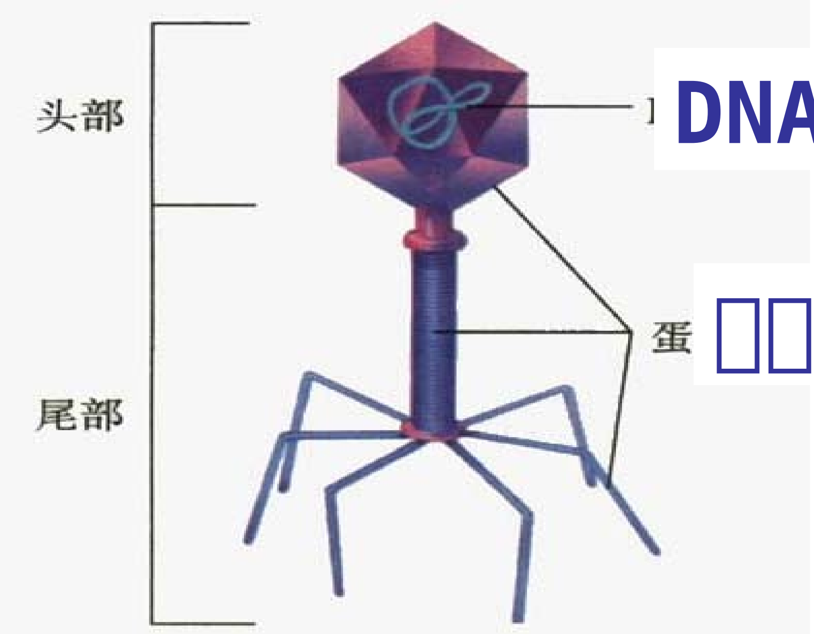


, T2 ,

T2

[illegible]．[illegible]

[illegible]　　—[illegible]



DNA（ C H O N ^{32}P ）

[illegible]（ C H O N ^{35}S ）

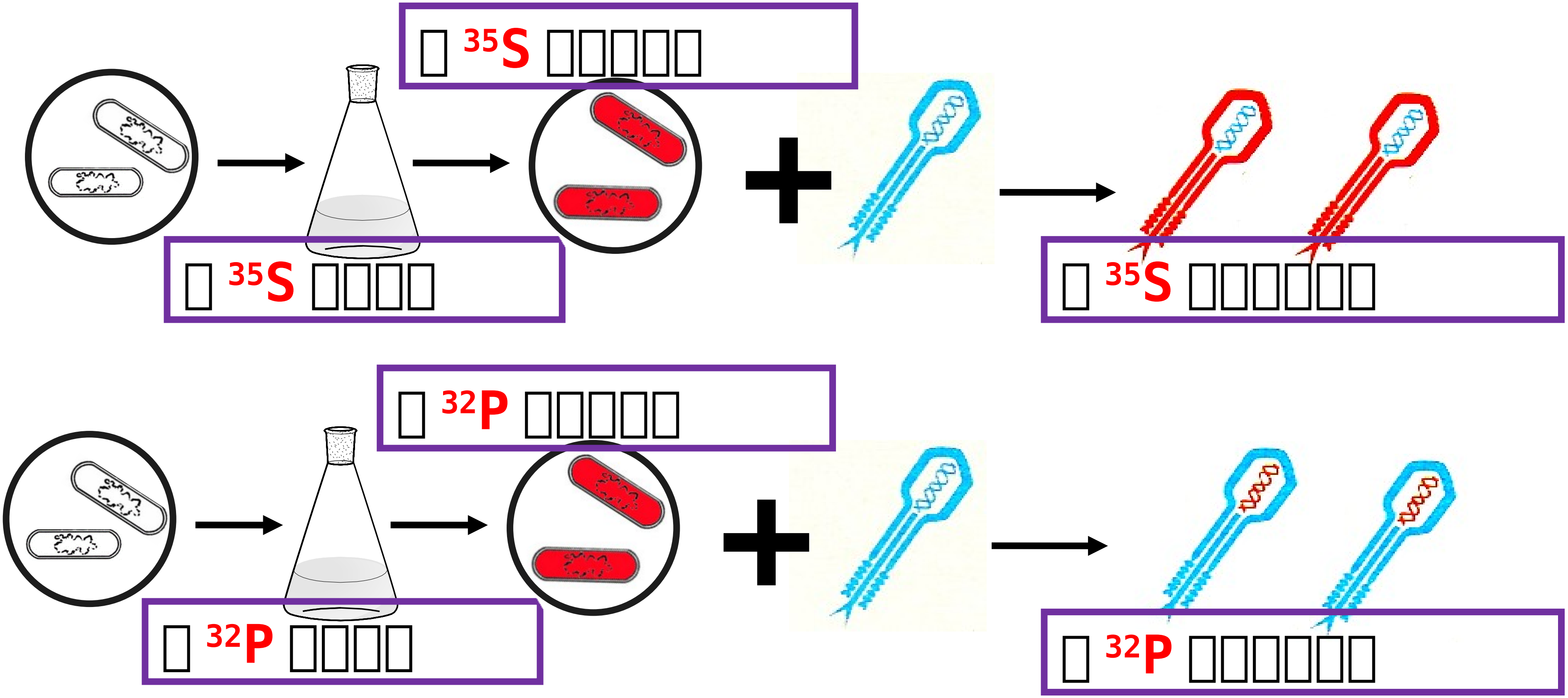
[illegible] CHON? [illegible] P [illegible] S [illegible]

[illegible]．[illegible]

—[illegible] T2 [illegible]

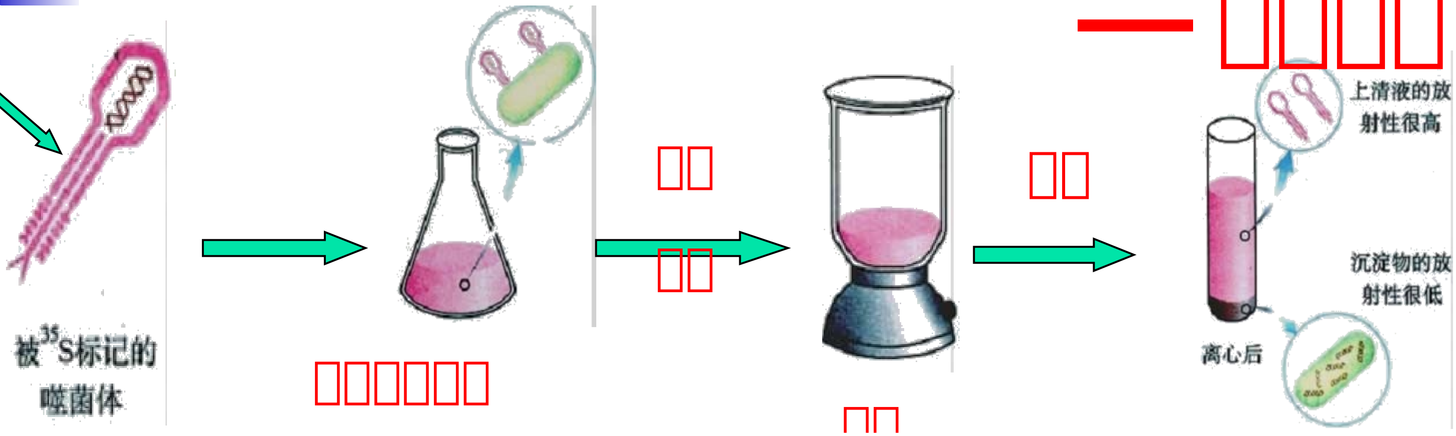
[illegible] ^{32}P [illegible] ^{35}S [illegible] T2 [illegible]

[illegible]



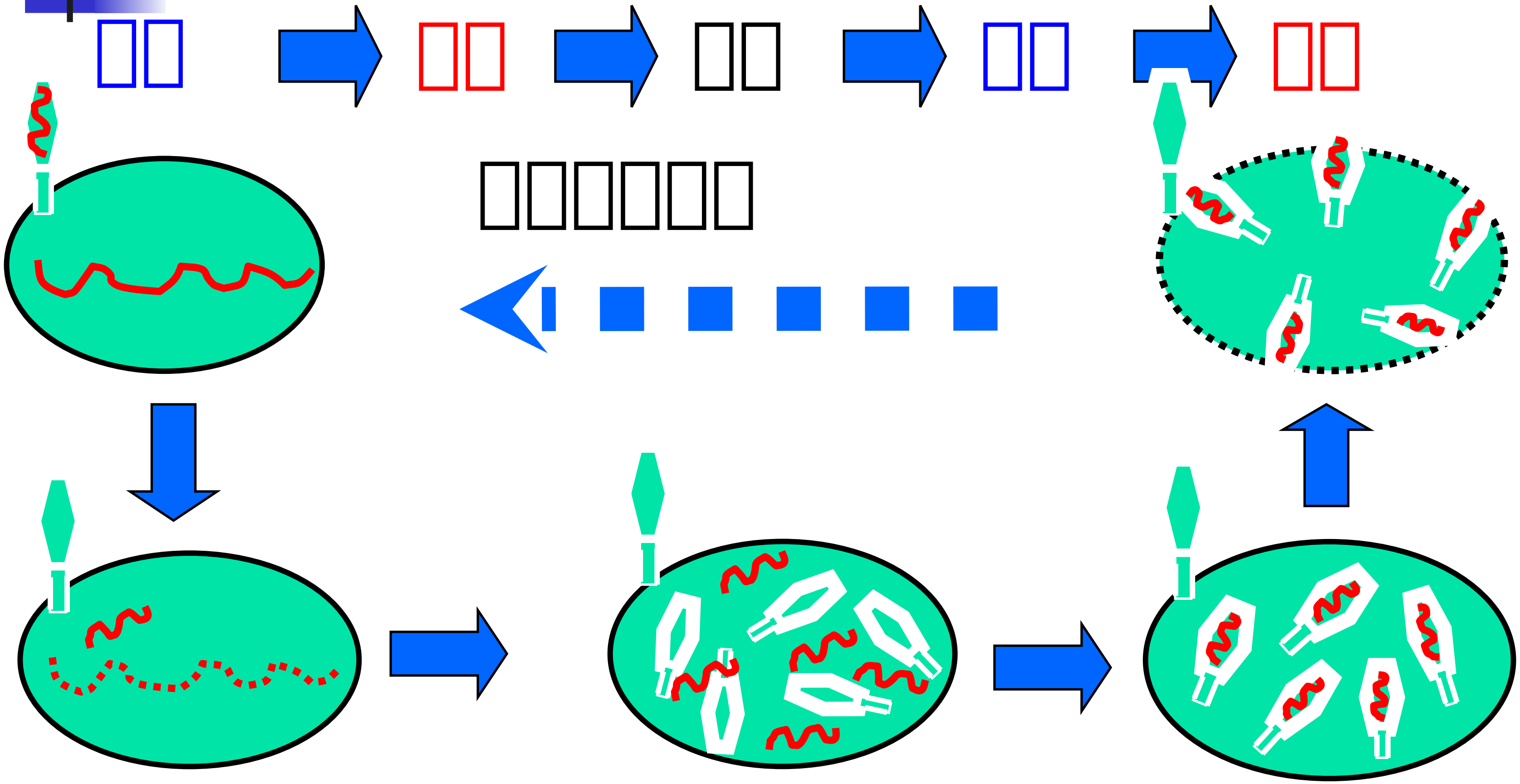
^{35}S

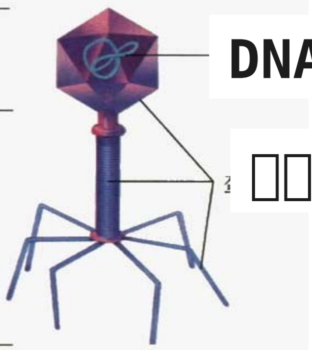
^{32}P



^{35}S

T2 DNA



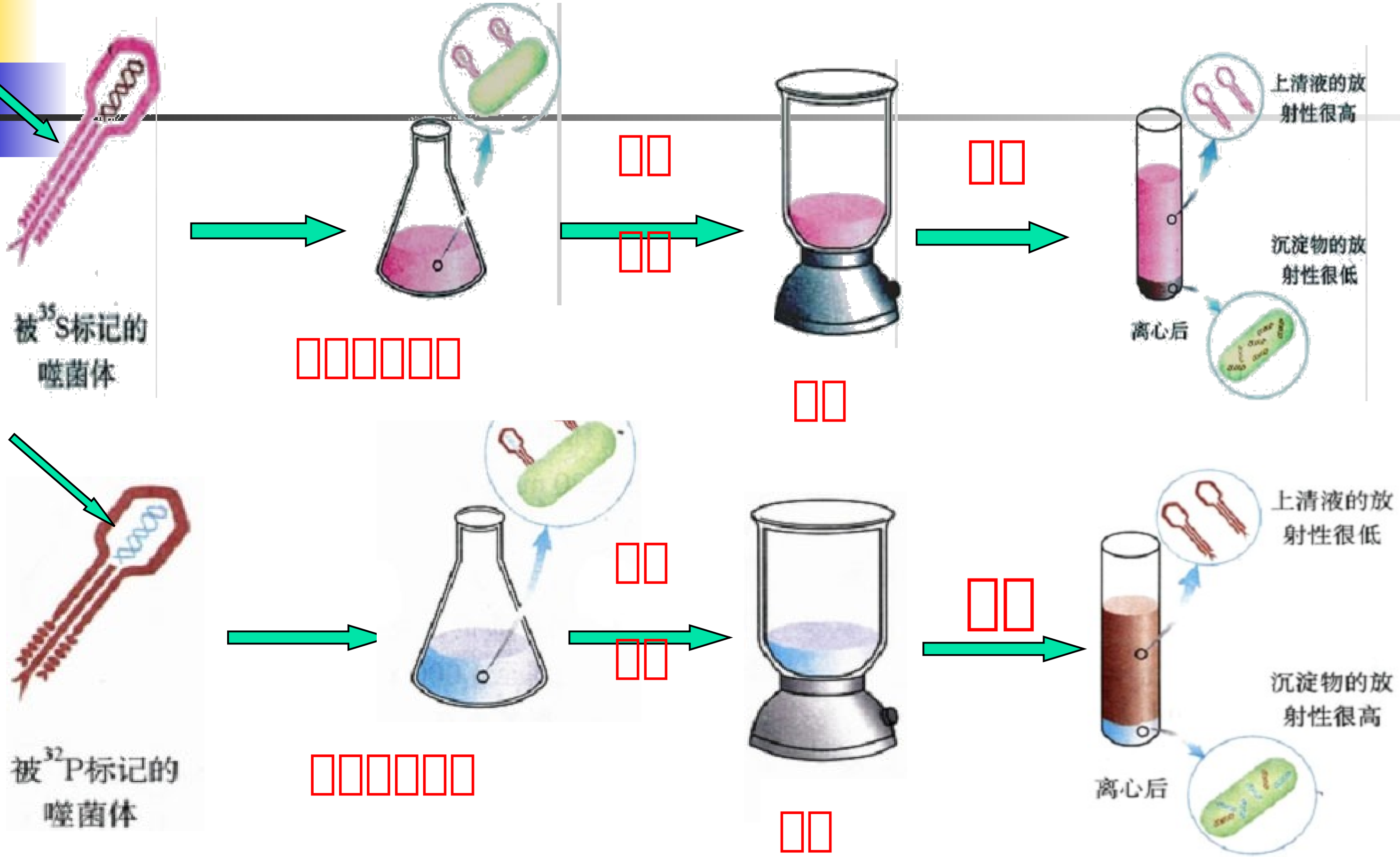


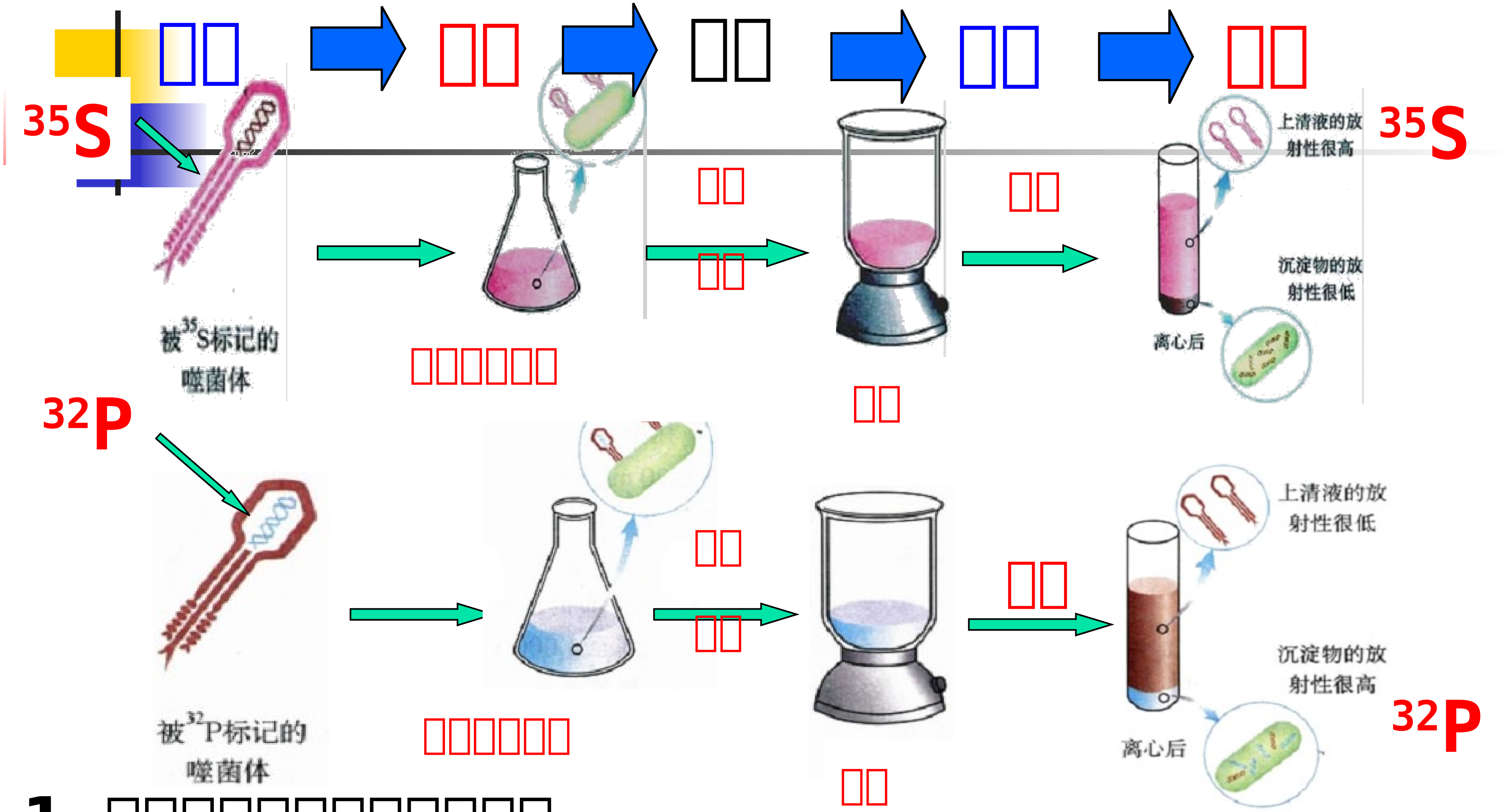
T2 [illegible]:

1. [illegible];
2. [illegible], [illegible];
3. [illegible];
4. [illegible]
5. [illegible], [illegible]
6. [illegible]

[illegible] DNA [illegible]
[illegible]

[illegible]
DNA [illegible]

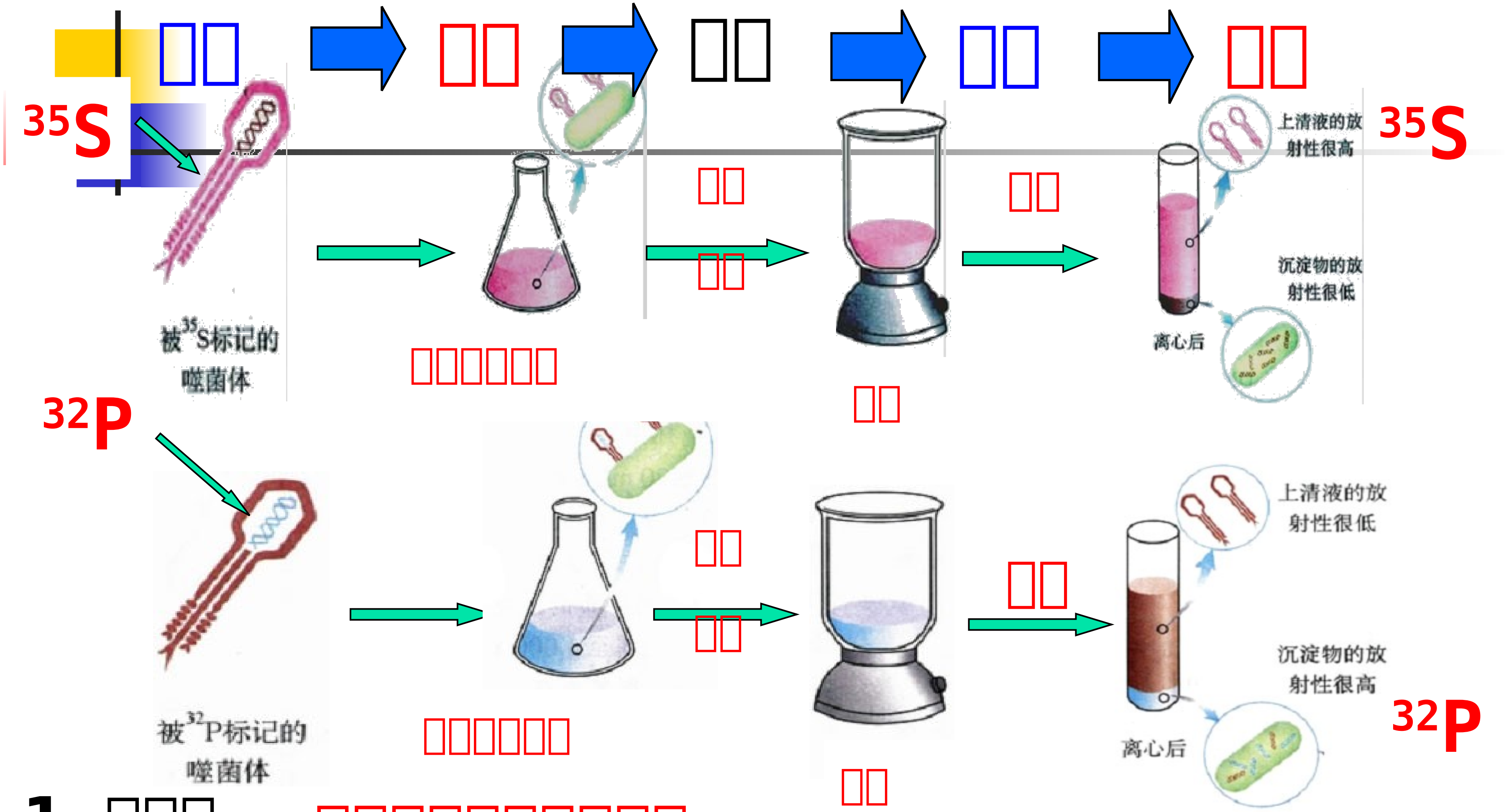

被^{35}S标记的噬菌体
上清液的放射性很高
沉淀物的放射性很低
离心后
被^{32}P标记的噬菌体
上清液的放射性很低
沉淀物的放射性很高
离心后



35S
被35S标记的噬菌体
上清液的放射性很高
沉淀物的放射性很低
离心后
35S
32P
被32P标记的噬菌体
上清液的放射性很低
沉淀物的放射性很高
离心后
32P

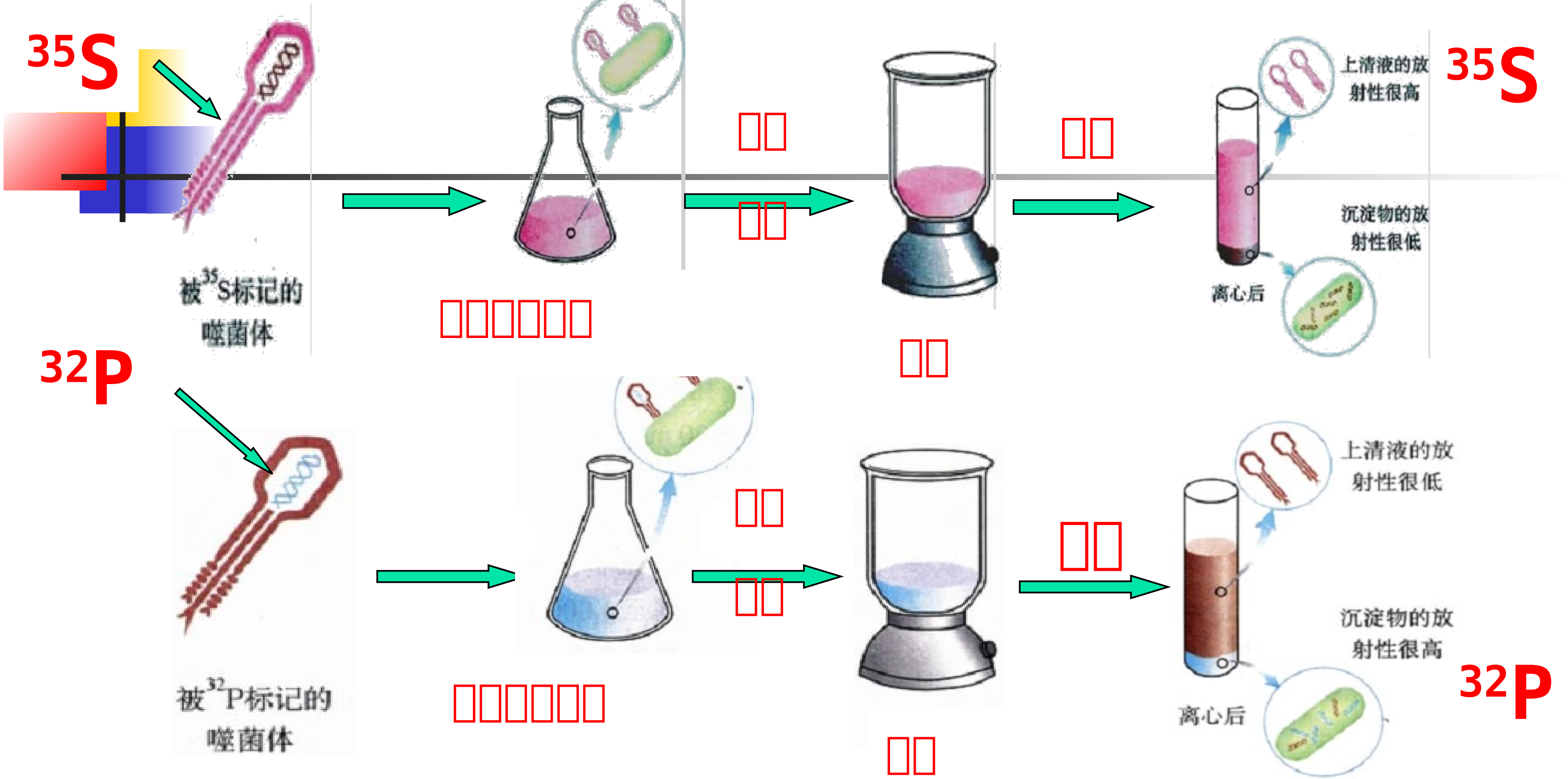
1.

2.


^{35}S
被^{35}S标记的噬菌体
上清液的放射性很高
沉淀物的放射性很低
离心后
^{35}S
^{32}P
被^{32}P标记的噬菌体
上清液的放射性很低
沉淀物的放射性很高
离心后
^{32}P

1.

3.

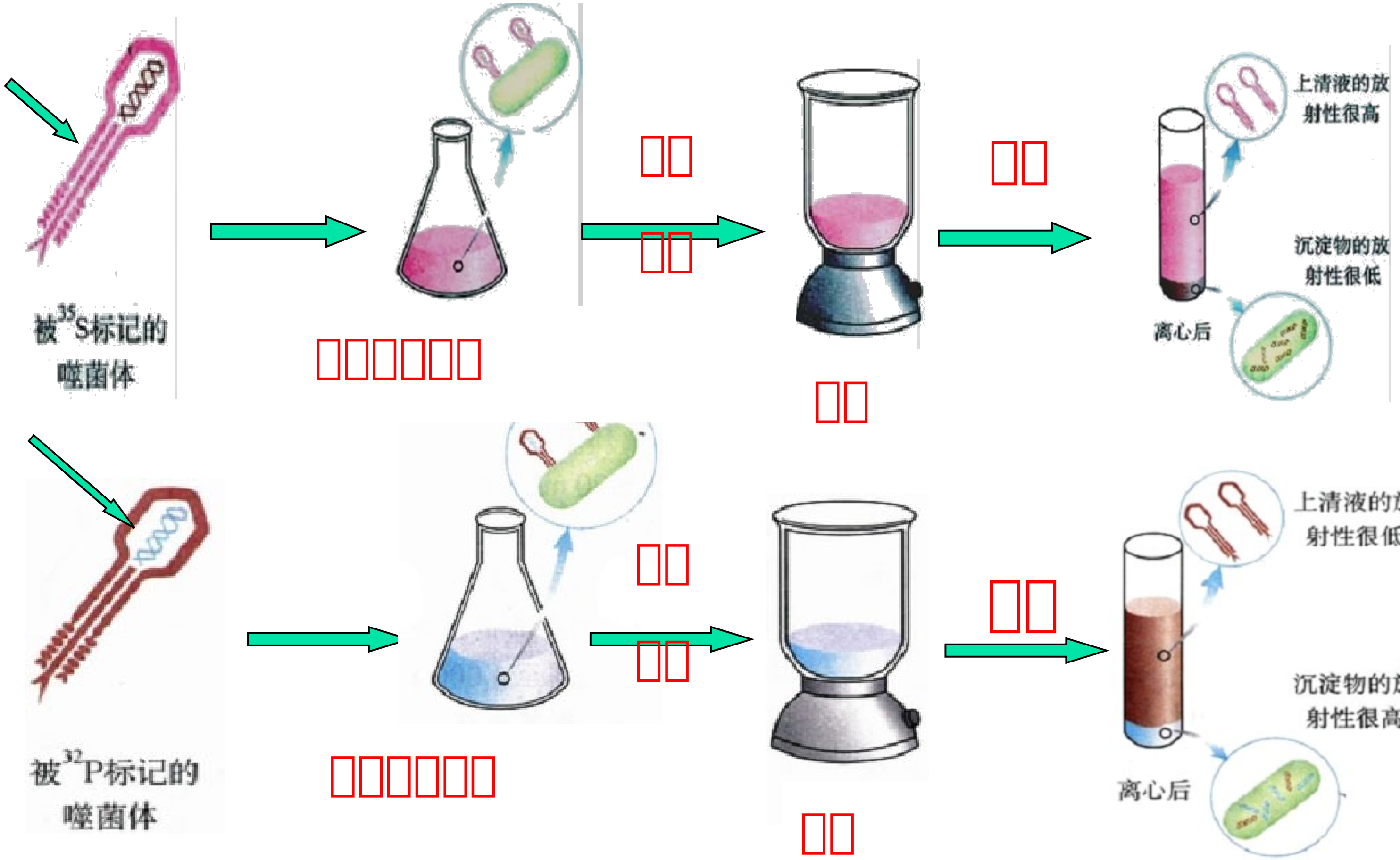


4.35S

5.32P

DNA

最后被标记的子代数量很少



[illegible]：[illegible] DNA [illegible]

[illegible] DNA [illegible]

[illegible] DNA [illegible]，

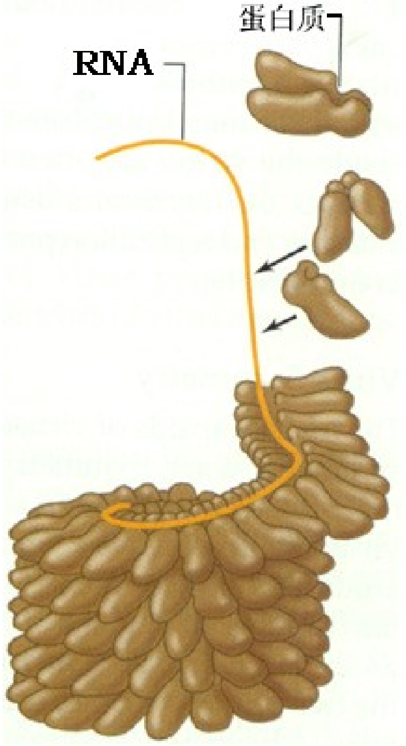
DNA [illegible]

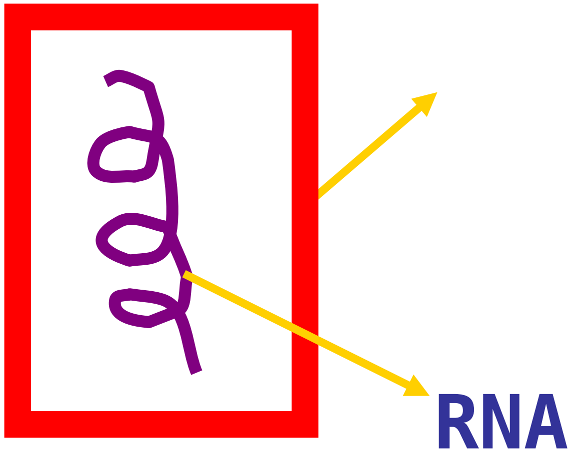
[illegible]

[illegible] **SARS** [illegible] **H1N1** [illegible]

[illegible] **RNA** [illegible]

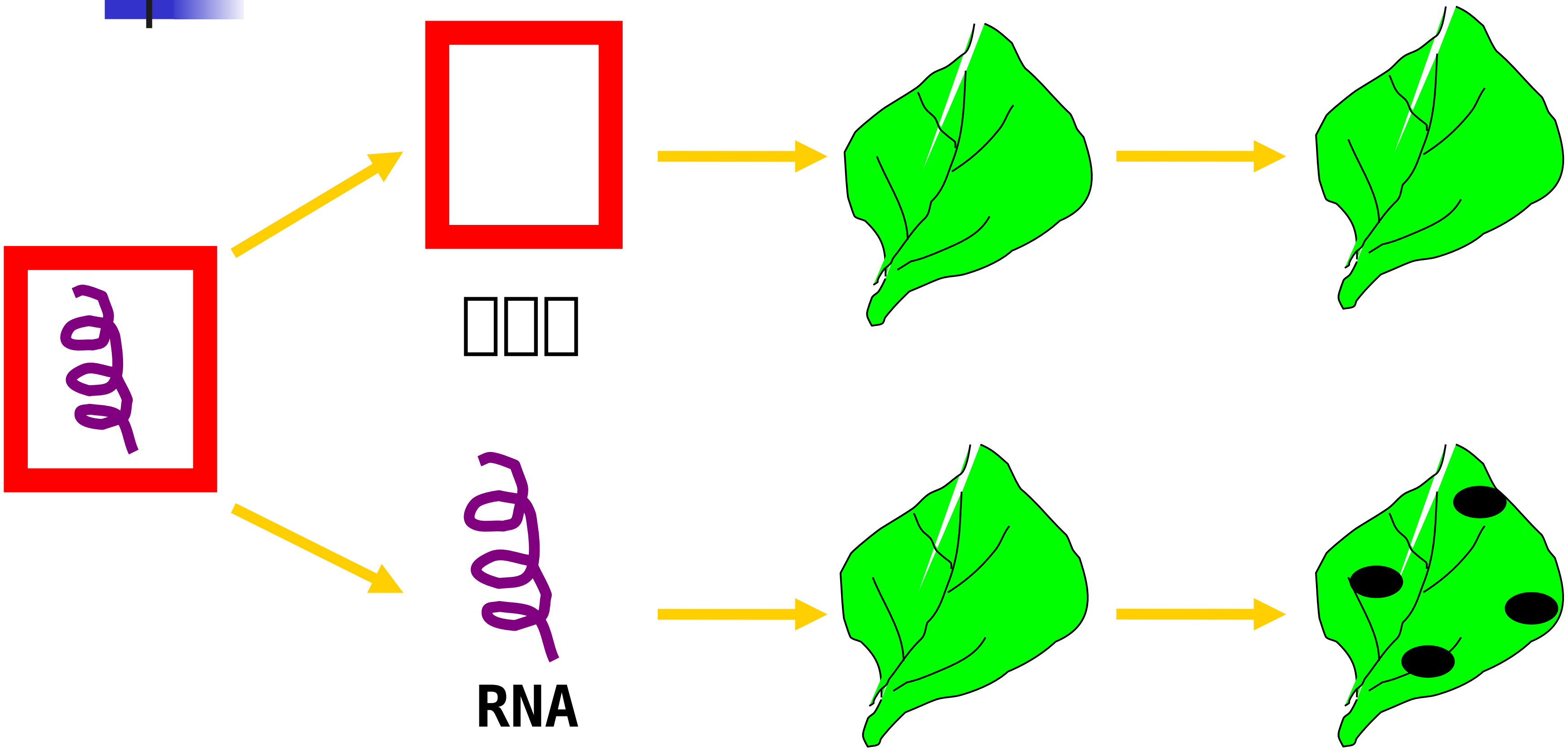
RNA [illegible]





[illegible]

[illegible]．[illegible]



[illegible] TMV [illegible] RNA

[illegible] **DNA** [illegible]

T2 [illegible]

[illegible] **RNA** [illegible]

HIV [illegible] **SARS** [illegible]
[illegible] **H1N1** [illegible]

[illegible] ______ 2 [illegible] ______ DNA，[illegible] RNA [illegible] __

______ DNA [illegible]

[illegible] (DNA [illegible] RNA)

[illegible] ______ [illegible] ______

______ [illegible] DNA [illegible] T2 [illegible] ______ [illegible]

[illegible] DNA [illegible] RNA [illegible] HIV [illegible] ______

RNA

__ [illegible]

[illegible] ______ [illegible] ______ [illegible]

[illegible] DNA [illegible]

□□□

□□□□□□□□□□□ **DNA**

错

□□□□□□□□□□□□□□□□□□□ (DNA □ RNA) □□□□
□□□□□□□ DNA □

[illegible]

1 [illegible]

[illegible] S [illegible] R [illegible] S [illegible]“[illegible]”[illegible]

2 [illegible]

1 [illegible] S [illegible] DNA [illegible]

2 [illegible] DNA [illegible]

3 [illegible]

1 [illegible] DNA

2 [illegible] DNA [illegible]

4 [illegible]

[illegible] RNA [illegible]

DNA [illegible]
[illegible]

[illegible]

[illegible] DNA [illegible]

[illegible]

1. [illegible]

[illegible] DNA √

[illegible] DNA √

[illegible] DNA [illegible] RNA ×

[illegible] DNA [illegible] RNA [illegible] DNA √

2. [illegible] (　　　) **D**

A. DNA [illegible]

B. DNA [illegible]

C. DNA [illegible]

D. DNA [illegible]

[illegible]

4. [illegible] ^{3}H [illegible] ^{15}N [illegible] ^{32}P [illegible] ^{35}S [illegible] ______ [illegible] ______ [illegible]

^{3}H [illegible] ^{15}N [illegible] ^{32}P DNA [illegible]

5. [illegible] ^{3}H [illegible] ^{3}H [illegible] （ ）

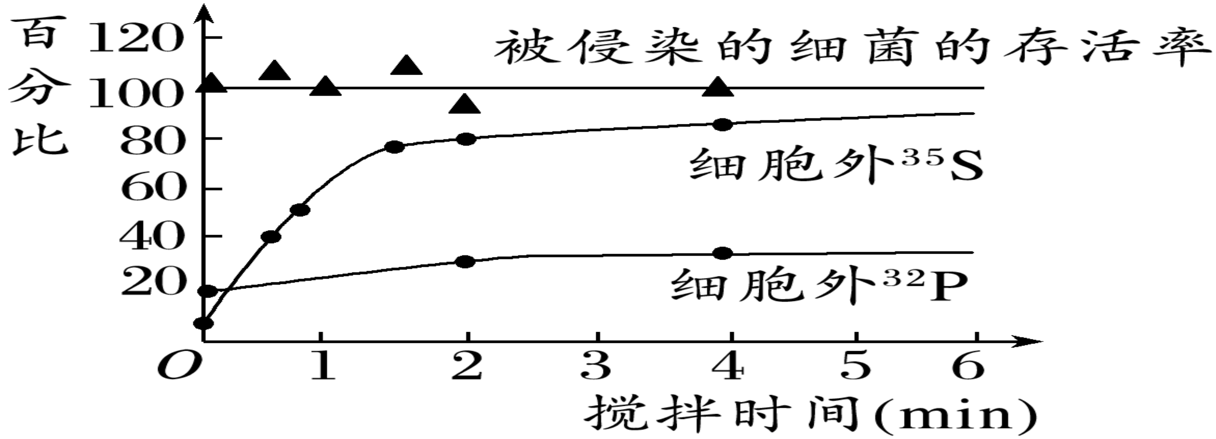
B

A. [illegible]

B. [illegible] DNA [illegible]

C. [illegible] DNA [illegible]

D. [illegible]



① [illegible] **100%** [illegible]

[illegible] ________________ [illegible]

② [illegible] **^{32}P** [illegible] **30%** [illegible]

[illegible] ______________________________________

① [illegible]

② [illegible]

□□

6. □ ^{32}P □□ S □□□□□□□ DNA □ ^{35}S □□□□□□□□□□□□□□□
□□□□□□□□ R □□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□□□ S □□ R □□□□□□□□□□□□□□□□□□□□ □

A. □□ S □□□□□ ^{32}P □□□□ ^{35}S

B. □□ R □□□□□ ^{32}P □□□□ ^{35}S

C. □□ S □□□□□□ ^{32}P □□□□ ^{35}S

D. □□ R □□□□□□ ^{35}S □□□□ ^{32}P

A